NANOCLUSTERED MAGNETIC MATERIALS FOR HIGH MOMENT WRITE POLE APPLICATIONS

ABSTRACT

The present invention includes magnetic write elements with 5 portions formed a nanophase high magnetic moment material to enable further increases in areal density in magnetic recording. The nanophase deposited high magnetic moment material comprises coated nanoclusters and nanolaminated cluster films that are deposited to form nanophase high magnetic moment material portions of a write pole and SUL layer in perpendicular recording media. The nanophase write poles exhibit high magnetic moments and are generally compatible with conventional writer head fabrication techniques.

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